

PROJECT TITLE : AGRICULTURAL CHEMICALS
PERIOD COVERED : JANUARY 15 - MARCH 3, 1982
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ROUTINE PESTICIDE ANALYSES

The following samples were analysed for pesticide residues during the period from January to March 1982 :

Organochlorines	53
Organophosphorus	51
Methamidophos	5
Dithiocarbamates	49
Maleic Hydrazide	43
Ridomil	13

NEW ANALYTICAL METHODS

Maleic Hydrazide

Work on quantitation of maleic hydrazide by GC has been continued (1). Experiments with different extraction and derivatization conditions were carried out to improve the overall recovery and the reproducibility of the method.

The latest experiments with MH-free tobacco spiked with 34.5 ppm and with 17.2 ppm MH gave a mean recovery of respectively 36% (single values : 25.5, 45.4, 37.9, 37.1, 39.1, 30.4%) and 35% (single values : 31.4, 39.8, 29.1, 35.9, 35.9, 35.2%) and a relative standard deviation of 20 and 11% respectively.

The detection limit of the GC method is approximately 5 ppm, and that of the photometric method approximately 10 ppm. The recommended tolerance level is 80 ppm.

Experiments to improve the reproducibility will be continued.

REFERENCE

(1) Speck-M., PME Monthly Progress Report, June 1981.

MS/jig/MARCH 24, 1982